

DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection



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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.15**SOURCE INSPECTION REPORT****Resident Engineer:** Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** SIR-001275**Date Inspected:** 17-Aug-2009**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1900**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island**Location:** Changxing Dao, Shanghai**Quality Control Contact:** William (Bill) Oak**Quality Control Present:** Yes No**Material transfer:** Yes No N/A**Sampled Items:** Yes No N/A**Stock Transfer:** Yes No N/A**OK to Cut:** Yes No N/A**Rebar Test Witness:** Yes No N/A**Delayed/Cancelled:** Yes No N/A**Other:** Coatings Inspection**Bridge No:** 34-0006**Component:** Office, Cross Beam #3, Bikeway Brackets, M**Bid Item:** 77, 78, 79**Lot No:** B265**Summary of Items Observed:**

On this date Caltrans Office of Structural Materials (OSM) Quality Assurance (QA) NACE III coating inspector, Mr. James Lumley arrived on site at the Zhenhua Port Machinery Company (ZPMC) facility at Changxing Island in Shanghai, China. The purpose of the coating inspections are to monitor the surface preparation and coating applications for the SAS Bay Bridge project. This QA NACE III coating inspector observed the following:

Office

Sort project documentation and organize project files.

Cross Beam #3

Inspection of surface cleanliness for topcoat Interfine 979 application and also check repair work to bottom surfaces re-blasted and recoated with Interzinc 22. Ambient conditions were found to be non-compliant inside Paint Shop #2 the work requested was cancelled pending activation of dehumidification units within paint facility.

Bikeway Brackets

A final acceptance inspection with Caltrans Engineer Bill Howe and SMR Skyler Guest. Bikeway brackets, counterweights and Traveler rail Brackets were viewed and all accepted for final except CW10, CW16, CW24 and one traveler rail bracket.

Lift 4 East

This lift was transported to the loading dock for placement on ship despite incomplete NDT and incomplete coating acceptance and incomplete repairs. Caltrans QA photo-documented internal and external surfaces prior to the lift. One location was abrasive blasted to an SSPC SP-10 condition and Interzinc 22 applied to the bottom adjacent to the support areas, this area was approximately 1.5 square feet.

Lift 3 East

Upper floor beam areas at Panel Point #19 were abrasive blasted and Interzinc 22 re-applied to this location along

SOURCE INSPECTION REPORT

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the longitudinal stiffener and “U” rib stiffener ends. ABF QC performed actual in process inspection. Caltrans QA performed follow up inspection with SMR Skyler Guest.

Miscellaneous Metal

Base metal surfaces of X37A plates were washed and de-greased in accordance with SP-1.

Miscellaneous Metal

Base metal surfaces of 200+- Splice plates and Traveler brackets were abrasive blasted to an SSPC SP-10 condition and Interzinc 22 applied.

Lift 3 East

Exposed galvanized bolts were prepared in accordance with SSPC SP-2 and Interzinc 52 applied to the Traveler rail Brackets affixed to the side plate.

Sub-Assemblies

Base metal surfaces of two Corner Unit sub-assembly faying surfaces were abrasive blasted to an SSPC SP-10 condition and Interzinc 22 applied. Codes observed were: DP697A, DP703A.

Counterweights

Topcoat repairs were performed and Interfine 979 re-applied to CW10, CW16,CW24. Previous final inspection rejected these items due to non-uniform finish and appearance.

OBG 6BE

External cursory inspection with ABF QA Bill Oak and ZPMC QC Don Yao Fei, Caltrans QA Lumley inquired with ZPMC QC as to whether or not dry film thickness readings were checked and ZPMC stated all were acceptable and verified by himself and his partner, visible dry spray was apparent on Interzinc 22 coated surfaces and no markings made to verify ZPMC QC claims relative to dry film thickness checking on surfaces. Caltrans QA inquired again as to Dry film thickness and re-iterated importance of timely checking for repairs if needed per product data sheet time limitations relative to overcoating Interzinc 22 with Interzinc 22 to build low dry film thickness areas.

Meeting:

Met with ABF & ZPMC and Caltrans personnel to discuss remediation and corrective actions and recommendations for the non-compliant work of external surfaces of Lift 4 East. Excessive Dry film thickness was discussed and general appearance also discussed. No International protective Coatings technical service representative was at this meeting.

Note: All inspections were performed jointly with ABF & ZPMC personnel and Caltrans QA Lumley when achievable. International Protective Coatings technical service representatives were available for consultation and inspections.

Summary of Conversations:

No relevant conversations on this day.

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Eric Tsang, (858) 699-9549, who represents the Office of Structural Materials for your project.

Inspected By:	Lumley,James	Quality Assurance Inspector
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Reviewed By:	Carreon,Albert	QA Reviewer
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